


Compounds of Uranyl With 1,10-Phenanthroline and 2,2'-Dipyridyl SOV/78-4-10-15/40

U.....N bond. In this case compounds of uranyl with 2,2'-dipyridyl are formed in which the latter acts as cation. The molecular conductivity of these compounds in water and methyl alcohol is presented in table 1 and table 2. There are 1 figure, 2 tables, and 7 references, 1 of which is Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences, USSR)

SUBMITTED: September 17, 1958

Card 2/2

ZHABOTINSKIY, M.Ye.; RUDNITSKIY,  TSAPKIN, V.V.; ELLERT, G.V.

Transfer of excitation from a crystal lattice to rare earth
ions. Zhur.eksp. i teor.fiz. 49 no.6:1689-1694 D '65.
(MIRA 19:1)
1. Institut radiotekhniki i elektroniki AN SSSR. Submitted
June 14, 1965.

GOLOVNYA, V.A., doktor khim. nauk; ELLENT, G.V., kand. khim. nauk;
SHUBOCHKIN, L.K., kand. khim. nauk; SHCHELOKOV, R.N., kand.
khim. nauk; TSAPKINA, I.V., kand. khim. nauk; TRAGGETT, Ye.N.,
kand. khim. nauk; KUKOV, V.P., doktor khim. nau, [deceased];
ALIKHANOVA, Z.N.; DYATKINA, M.Ye., doktor khim. nauk; MIKHAYLOV,
Yu.N.; TSAPKIN, V.V., kand. khim. nauk; BOLOTOVA, G.T., kand. khim. nauk;
CHERNYAYEV, V.A., doktor khim. nauk; KORCHEMNAYA, Ye.K., red.

[Complex compounds of uranium] Kompleksnye soedineniya urana.
Moskva, Izd-vo "Nauka," 1964. 488 p. (MIRA 17:7)

1. Akademiya nauk SSSR. Institut obshchey i neorganicheskoy
khimii. 2. Laboratoriya khimii kompleksnykh soyedineniy ak-
tinidov Instituta obshchey i neorganicheskoy khimii AN SSSR
(for all except Korchemnaya).

MARKOV, V.P.; TSAPKIN, V.V.

Physicochemical properties of some uranyl compounds with
1, 10-phenanthroline and 2, 2'-bipyridine. Zhur.neorg.khim.
7 no.3:490-497 Mr '62. (MIRA 15:3)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova
AN SSSR.

(Uranyl compounds) (Phenanthroline) (Bipyridine)

BLIND, 1977, IRON, Fe, 1977, 1978, 1979, 1980, 1981, 1982.

Chloridobromine complex compound of tetraethylammonium.
Zhur. neorg. khim. 10 no.7:1572-1580 1965. (1965 14:2)

MARKOV, V.P.; TSAPKIN, V.V.

Compounds of uranyl with 1, 10-phenanthroline and 2, 2'-bipyridyl.
Zhur.neorg.khim. 6 no.9:2059-2061 S '61. (MIRA 14:9)

1. Institut obshchey i neorganicheskoy khimii im. N.Kurnakova
Akademii nauk SSSR.
(Uranyl compounds) (Phenathroline) (Bipyridine)

L 25696-66 EWT(l)/EWT(m)/I/EWP(t) IJP(c) AT/JD/JG

ACC NR: AP6002705

SOURCE CODE: UR/0056/65/049/006/1689/1694

AUTHOR: Zhabotinskiy, M. YE.; Rudnitskiy, YU. P.; Tsapkin, V. V.; Ellert, G. V.

ORG: Institute of Radio Engineering and Electronics, Academy of Sciences SSSR (Institut radiotekhniki i elektroniki Akademii nauk SSSR)

TITLE: Transfer of excitation from the crystal lattice to rare earth ions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 6, 1965, 1689-1694

TOPIC TAGS: cesium compound, uranium compound, rare earth element, excitation spectrum, activated crystal, luminescence spectrum, absorption band, crystal lattice energy

ABSTRACT: The authors have experimentally confirmed the possibility of efficient transfer of excitation energy from the crystal lattice to activator ions, and present the results of a study of such a transfer from uranyl cesium tetrachloride lattice to a rare-earth ion. Polycrystalline uranyl cesium tetrachloride was used, activated by rare earths (other than Ce and Gd) with concentration 0.1--0.5 mol.%. The luminescence spectra and excitation spectra were recorded and the lifetimes measured. The luminescence was excited both directly in the excitation bands of the ions themselves and through excitation of the lattice. The luminescence produced by Pr, Nd, Eu, Ho, Er, and Tm was quite strong, that of Sm weaker, and no luminescence of Tb and Dy was observed. Luminescence of Yb was observed only in the ir region on pumping in the ion absorption band. It is deduced from the excitation spectra that an efficient energy transfer exists between the lattice and the activator ions. Luminescence excited

Card 1/2

L 25696-66

ACC NR: AF6002705

through lattice pumping is much more intense than that induced directly in the ion absorption band. The energy transfer is accompanied by appreciable shortening of the lifetime of the excited state of the uranyl, indicating a nonradiative transfer mechanism. Orig. art. has: 6 figures.

EUB CODE: 20/ SUBM DATE: 14 Jun 65/ ORIG REF: 004/ OTH REF: 004

Card 2/2

GOLOVNYA, V.A., doktor khim. nauk; ELLENT, G.V., kand. khim. nauk;
SHUBOCHKIN, L.K., kand. khim. nauk; SHCHELOKOV, R.N., kand.
khim. nauk; TSAPKINA, I.V., kand. khim. nauk; TRAGGETT, Ye.N.,
kand. khim. nauk; KARKOV, V.P., doktor khim. nau, [deceased];
AJIKHANOVA, Z.N.; DYATKINA, M.Ye., doktor khim. nauk; MIKHAYLOV,
Yu.N.; TSAPKIN, V.V., kand. khim. nauk; BOLOTOVA, G.T., kand. khim. nauk;
CHERNYAYEV, V.A., doktor khim. nauk; KORCHEMNAYA, Ye.K., red.

[Complex compounds of uranium] Kompleksnye soedineniya urana.
Moskva, Izd-vo "Nauka," 1964. 488 p. (MIRA 17:7)

1. Akademiya nauk SSSR. Institut obshchey i neorganicheskoy
khimii. 2. Laboratoriya khimii kompleksnykh soyedineniy ak-
tivirov Institut obshchey i neorganicheskoy khimii AN SSSR
(for all except Korchemnaya).

MARKOV, V.P.; TSAPKINA, I.V.

Determination of the molecular refraction of some urea compounds
of uranyl. Zhur.neorg.khim. 7 no.5:1206-1207 My '62.
(MIRA 15:7)
(Uranyl compounds--Optical properties) (Urea)

SOV/78-4-10-14/40

5(2)

AUTHORS:

Markov, V. P., Tsapkina, I. V.

TITLE:

Compounds of Uranyl Salts With Urea

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 10,
pp 2255-2260 (USSR)

ABSTRACT:

After a short survey of the publications available on this problem the authors refer to the urea complexes of uranyl salts produced in 1957 by P. S. Gentill and L. H. Tally (Ref 4) and in 1952 by V. A. Golovnya. In the experimental part the syntheses and analysis results of the following compounds are described:
 $\text{UO}_2\text{SO}_4 \cdot 2\text{CO}(\text{NH}_2)_2$; $\text{UO}_2\text{SO}_4 \cdot 3\text{CO}(\text{NH}_2)_2$; $\text{UO}_2\text{SO}_4 \cdot 4\text{CO}(\text{NH}_2)_2$;
 $\text{UO}_2\text{Cl}_2 \cdot 2\text{CO}(\text{NH}_2)_2 \cdot \text{H}_2\text{O}$; $\text{UO}_2\text{Cl}_2 \cdot 3\text{CO}(\text{NH}_2)_2 \cdot \text{H}_2\text{O}$; $\text{UO}_2(\text{NO}_3)_2 \cdot 2\text{CO}(\text{NH}_2)_2$;
 $\text{UO}_2(\text{NO}_3)_2 \cdot 4\text{CO}(\text{NH}_2)_2 \cdot \text{H}_2\text{O}$; $(\text{NH}_4)_2[\text{UO}_2(\text{C}_2\text{O}_4)_2 \cdot \text{H}_2\text{OCO}(\text{NH}_2)_2]$;
 $\text{UO}_2(\text{NO}_3)_2 \cdot 5\text{CO}(\text{NH}_2)_2 \cdot \text{H}_2\text{O}$ and $\text{UO}_2(\text{NO}_3)_2 \cdot 6\text{CO}(\text{NH}_2)_2$. Furthermore the infrared absorption frequencies (Table 2) and heating curves (Fig 3) are given for uranyl sulphate and uranyl sulphate ureas. It is found that the di-urea complex of uranyl sulphate is more stable than the higher urea complexes. The

Card 1/2

Compounds of Uranyl Salts With Urea

SOV/78-4-10-14/40

complex ammonium-uranyl sulphate reacts with urea to form $\text{UO}_2\text{SO}_4 \cdot 2\text{CO}(\text{NH}_2)_2$ or $\text{UO}_2\text{SO}_4 \cdot 3\text{CO}(\text{NH}_2)_2$. On reaction of di-aqua-uranyl-ammonium-dioxalate a water molecule is substituted to form the complex compound $(\text{NH}_4)_2[\text{UO}_2(\text{C}_2\text{O}_4) \cdot \text{H}_2\text{O} \cdot \text{CO}(\text{NH}_2)_2]$. There are 3 figures, 2 tables, and 10 references, 3 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences, USSR)

SUBMITTED: September 19, 1958

Card 2/2

S/078/61/006/002/C16/C17
B017/B054

AUTHORS: Belova, V. I., Syrkin, Ya. K., Markov, V. P., Tsapkina, I. V.

TITLE: Magnetic Susceptibility of Uranyl Compounds

PERIODICAL: Zhurnal neorganicheskoy khimii, 1961, Vol. 6, No. 2, pp. 425 - 427

TEXT: As had been found by V. P. Markov and I. V. Tsapkina (Ref. 1), the uranyl compounds UO_2SO_4 , $\text{UO}_2(\text{NO}_3)_2$, UO_2Cl_2 , and $\text{UO}_2\text{C}_2\text{O}_4$ may add 1 - 6 molecules of water, urea, acetamide, etc. The authors studied the magnetic susceptibility of 26 such addition compounds. Results of these investigations are compiled in a table. It was found that in the compounds $(\text{CN}_3\text{H}_6)_2[\text{UO}_2(\text{C}_2\text{H}_4)_2\text{CO}(\text{NH}_2)_2]$ and $\text{Cs}_2[\text{UO}_2(\text{C}_2\text{O}_4)_2(\text{H}_2\text{O})_2]$ the paramagnetic properties depended on temperature. In various compounds, the diamagnetic component is nonuniform, and variable with the number of addenda, the

Card 1/4

Magnetic Susceptibility of Uranyl Compounds

9/078/61/006/002/016/017
B017/B054

structure of addenda, and the binding character. The addition compounds of uranium with urea, acetamide, water, etc. are of the donor-acceptor type. The addenda influence the electron orbits, and are characterized by the change in diamagnetic susceptibility and the higher frequency of the paramagnetism. Some of the compounds were synthesized by R. N. Shohelokov. There are 1 table and 4 references: 1 Soviet, 1 US, 1 British, and 1 Indian. ✓

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov, Academy of Sciences USSR)

SUBMITTED: September 14, 1960

Card 2/4

S/078/61/006/002/016/017
B017/B054

Соединение	Магнитная восприимчивость · 10 ⁶			
	χ _г	χ _{моль}	χ _{исходного соединения}	χ _{UO₂}
UO ₂ SO ₄ ·	+0,016	5,6	5,6	48
UO ₂ SO ₄ ·3H ₂ O	-0,024	-10,1	28	68
UO ₂ SO ₄ ·2CO(NH ₂) ₂	-0,090	-43,8	23	63
UO ₂ SO ₄ ·3CO(NH ₂) ₂	-0,128	-69,9	31	71
UO ₂ SO ₄ ·4CO(NH ₂) ₂	-0,172	-104,3	30	70
UO ₂ SO ₄ ·2CH ₃ CONH ₂	-0,083	-40,2	28	68
UO ₂ SO ₄ ·CH ₃ CONH ₂ ·2H ₂ O	-0,088	-39,7	20	60
UO ₂ (NO ₃) ₂ ·6H ₂ O	-0,103	-51,7	24	62
UO ₂ (NO ₃) ₂ ·2CO(NH ₂) ₂	-0,088	-44,2	23	61
UO ₂ (NO ₃) ₂ ·4CO(NH ₂) ₂ ·H ₂ O	-0,180	-117,4	30	68
UO ₂ (NO ₃) ₂ ·5CO(NH ₂) ₂ ·H ₂ O	-0,201	-143,2	37	75
UO ₂ (NO ₃) ₂ ·2CH ₃ CONH ₂	-0,115	-58,9	9	47
UO ₂ Cl ₂ ·2CO(NH ₂) ₂ ·H ₂ O	-0,134	-63,9	16	63
UO ₂ Cl ₂ ·3CO(NH ₂) ₂ ·H ₂ O	-0,154	-83,0	20	67

Card 3/4

S/078/61/006/002/016/017
B017/B054

$\text{UO}_2\text{C}_2\text{O}_4\text{CO}(\text{NH}_3)_2$	-0,027	-11,3	22	60
$\text{UO}_2\text{C}_2\text{O}_4\text{CH}_3\text{CONH}_2$	-0,025	-10,4	24	62
$\text{K}_2[\text{UO}_2(\text{C}_2\text{O}_4)_2\text{H}_2\text{OCO}(\text{NH}_3)_2]$	-0,135	-81,3		70
$(\text{C}_{10}\text{H}_8\text{N}_2\text{H})_2[\text{UO}_2(\text{C}_2\text{O}_4)(\text{SO}_4)_2(\text{CO}(\text{NH}_3)_2)_2]$	-0,188	-235,9		70
$\text{C}_{10}\text{H}_8\text{N}_2\text{H}[\text{UO}_2\text{C}_2\text{O}_4\text{Cl}]$	-0,131	-72,1		85
$\text{C}_{10}\text{H}_8\text{N}_2\text{H}_2[\text{UO}_2(\text{C}_2\text{O}_4)_2\text{Cl}_2(\text{CO}(\text{NH}_3)_2)_2]$	-0,147	-154,1		72
$\text{C}_{10}\text{H}_8\text{N}_2\text{H}_2[\text{UO}_2\text{C}_2\text{O}_4\text{Cl} \cdot \text{H}_2\text{O}]$	-0,087	-85,4		81
$(\text{CN}_2\text{H}_2)_2[\text{UO}_2(\text{C}_2\text{O}_4)_2\text{CO}(\text{NH}_3)_2] \cdot$	-0,168	-104		73
$(\text{C}_{10}\text{H}_8\text{N}_2\text{H})_2[\text{UO}_2(\text{SO}_4)_2\text{H}_2\text{OCO}(\text{NH}_3)_2]$	-0,284	-225,6		92
$(\text{NH}_3)_2[\text{UO}_2(\text{C}_2\text{O}_4)_2(\text{H}_2\text{O})_2]^{**}$	-0,119	-81,7		68
$\text{Rb}_2[\text{UO}_2(\text{C}_2\text{O}_4)_2(\text{H}_2\text{O})_2]^{**}$	-0,110	-71,8		75
$\text{Cs}_2[\text{UO}_2(\text{C}_2\text{O}_4)_2(\text{H}_2\text{O})_2]^{**}$	-0,147	-110,0		61

Legend to the table: 1: magnetic susceptibility, 2: mole,
3; initial compound

Card 4/4

S/078/61/006/003/010/022
B121/B208

AUTHORS: Dyatkina, M. Ye., Markov, V. P., Tsapkina, I. V., Mikhaylov, Yu. N.

TITLE: Electron structure of the group UO_2 in uranyl compounds

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 3, 1961, 575-580

TEXT: The stability of the uranyl group in various compounds depends on the remaining atoms or groups appearing as addenda in the coordination sphere of uranyl. The uranium atom is characterized by a large number of free electron orbits. There are donor-acceptor bonds between the ligands and uranium, which compete with the donor-acceptor bonds of the UO_2 group. This competition results in the formation of solid complexes of uranium with ligands of pronounced donor properties, such as ammonia, amines, thiourea, etc. The formation of secondary bonds between uranium and the ligands also depends largely on their ionic character. The nature of the bonds in the compounds UF and UO_2F is discussed. The existence of donor-acceptor bonds with secondary ligands prevents the appearance of additional donor-acceptor bonds of U with oxygen. By substituting H_2O or $CO(NH_2)_2$ for the secondary ligands

Card 1/2

S/078/61/006/003/010/022
B121/B208

Electron structure ...

NO_3 , C_2O_4 or SO_4 ", the number of donor-acceptor bonds is increased and the donor-acceptor bonds in the $\text{U}=\text{O}$ group are weakened. The ν_{asUO_2} frequency thus decreases. This decrease occurs by strengthening the donor properties of the secondary ligands in uranium compounds. This result agrees with the observation made by V. M. Vdovenko, D. N. Suglov, and V. A. Krasil'nikov (Ref. 12). The change of paramagnetic susceptibility by inclusion of secondary ligands is discussed. By exchanging H_2O for $\text{CO}(\text{NH}_2)$ in the sulfates, chlorides, and oxalates of uranyl, the paramagnetic susceptibility is slowly increased. The authors also discuss the change of the polarizability of the uranyl ion by inclusion of acceptor-donor ligands. The competition between the donor-acceptor bonds of the UO_2 group and secondary ligands is observed in the following groups: NpO_2 , PuO_2 , AmO_2 , TiO , ZrO , VO , etc. Mention is made of Ya. K. Syrkin, V. I. Belov, A. N. Nesmeyanov, and T. P. Tolstaya. There are 17 references: 7 Soviet-bloc and 10 non-Soviet-bloc.

SUBMITTED: September 21, 1960

Card 2/2

MARKOV, V.P.; TSAPKINA, I.V.

Some acyl-complex compounds of uranyl containing urea in
their composition. Zhur.neorg.khim. 8 no.2:285-289 F '63.
(MIRA 16:5)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova
AN SSSR.

(Uranyl compounds) (Urea)

TSAPKO, A.I., inzh.

Hooks for climbing reinforced-concrete poles. Energetik 8 no.11:
27-28 N '60. (MIRA 13:12)

(Electric lines--Poles)

TSAPKO, A.S.

Cold Storage on Shipboard

"Isothermal" fleet in the Ob'-Irtys' basin. Ryb. khoz. 23, no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952. 1953. Unclassified.

TSAPKO, A. G.

Fishery Products - Preservation.

Ice-brine and permafrost cold storage rooms in Siberia, Izv. Khim. Z., No. 2,
1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

1. TSAPKO, A.S.; DENISOV, P.A.
2. USSR (600)
4. Fish, Smoked
7. Continuous-action smoke generator, A.S. TSapko, P.A. Denisov, Ryb.khoz. 29 no. 4, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

TSAPKO, Aleksandr Stepanovich; KOZHUKHOVA, D.S., red.; BOL'SHAKOVA,
L.A., tekhn. red.

[Fish preservation by refrigeration]Konservirovanie ryby kho-
lodom. Arkhangel'sk, Arkhangel'skoe knizhnoe izd-vo, 1959.
97 p. (MIRA 15:11)

(Fishery products—Preservation)
(Refrigeration and refrigerating machinery)

TSAPKO, A.S., otty.red.; GLIKMAN, S.A., doktor khim. nauk, prof., red.;
GEMP, K.P., st. nauchn. sotr., red.; GRUYNER, V.S.,
doktor tekhn. nauk, red.; DANILOV, S.N., red.;
YEVTUSHENKO, V.A., kand. khim. nauk, red.; ZINOVA, A.D.,
kand. biol. nauk, red.; KIZEVETTER, I.V., doktor tekhn.
nauk, red.; KIREYEVA, M.S., kand. biol. nauk, red.;
VULIKHMAN, M.A., red.; POTEKHIN, L.P., red.

[Transactions of the First All-Union Conference of Workers
in the Algal Industry of the U.S.S.R.] Trudy Pervogo Vse-
soiuznogo nauchno-tekhnicheskogo soveshchaniia po vodo-
roslevoi promyshlennosti SSSR. Arkhangel'sk, Arkhangel'skoe
knizhnoe izd-vo. Vol.1. 1962. 214 p. (MIRA 17:12)

1. Vsesoyuznoye soveshchaniye rabotnikov vodoroslevoy pro-
myshlennosti SSSR. 1st. 2. Chlen-korrespondent AN SSSR (for
Danilov). 3. Vsesoyuznyy nauchnyy institut morskogo rybnogo
khozyaystva i okeanografii (for Kireyeva). 4. Nachal'nik
Upravleniya rybnoy promyshlennosti Arkhangel'skogo sovna-
khoza (for TSapko). 5. Saratovskiy gosudarstvennyy universiteta
im. N.G.Chernyshevskogo (for Glikman).

TSAPKO, G.Ye.; SEREBRYANNAYA, A.I., khimik

Experiment in determining dust in the air of Kiev. Gig. i san. 24
no.2:74-75 F '59. (MIRA 12:3)

1. Iz Kiyevskoy sanitarno-epidemiologicheskoy stantsii. 2. Gosu-
darstvennyy sanitarnyy inspektor (for TSapko).
(AIR POLLUTION, determ.
dust determ. in air of Kiev (Rus))

17(

SOV/177-58-5-13/30

AUTHOR: Tsapko, M.S., Colonel of the Medical Corps
Karakis, L.V., Lieutenant Colonel of the Medical
Corps, and Dub, Ye.M.

TITLE: Some Results of a Parasitological Exploration (Nekotoryye itogi parazitologicheskoy razvedki)

PERIODICAL: Voenno-meditsinskiy zhurnal, 1958, Nr 5, pp 60 - 62
(USSR)

ABSTRACT: The authors give the results of a 3-year parasitological reconnaissance for specifying the representatives of the Ixodidae family in military camps in various geographical zones such as woodlands, the forest-steppe and the steppe. Among the ticks in the woodlands, they identified predominantly Dermacentor marginatus, Ixodes ricinus and Dermacentor pictus; in the forest-steppe prevailed Ixodes ricinus, Rhipicephalus and Laelaps algericus, and in the steppe-Hyalomma scupense, Dermacentor marginatus and Rhipicephalus. The authors stress the importance of sy-

Card 1/2

SOV/177-58-5-13/30

Some Results of a Parasitological Exploration

stematic parasitological exploration in densely populated regions where people come into direct contact with cattle, in order to ascertain the presence of breeding grounds of parasites and to take timely prophylactic measures. There are 2 Soviet references.

Card 2/2

ACC NR: APT005662

(A, IV)

SOURCE CODE: UR/0413/67/000/002/0118/0119

INVENTOR: Tsapko, N. Z.; Moroz, D. A.; Smoliy, V. G.; Bogomolov, V. S.; Nesterov, P. G.; Sergeyev, V. P.

ORG: None

TITLE: An automatic printer. Class 42, No. 190671 [announced by the Scientific Research Institute of Control Computers (Nauchno-issledovatel'skiy institut upravlyayushchikh vychislitel'nykh mashin)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 118-119

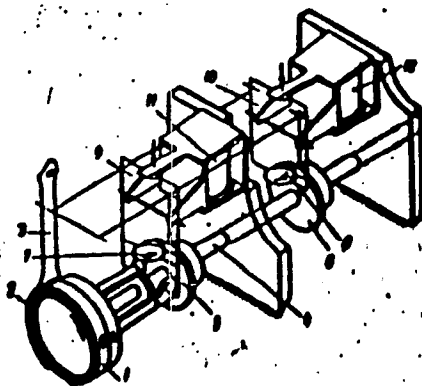
TOPIC TAGS: printing machinery, automatic machine

ABSTRACT: This Author's Certificate introduces an automatic printer which contains a register wheel and a colored ribbon. To increase printout capacity and provide a larger number of symbols, a two-register (double-row) spring loaded wheel is used with a two-color printing ribbon which has a guide lever. Reciprocating motion of the wheel and the ribbon guide lever along the shaft of the wheel is produced by interaction between cams set fast on the shaft and rollers located in the lower section of frames which are fixed in two positions by electromagnets controlled by pulse transmitters for switching the register and ribbon color.

Cord 1/2

UDC: 681.61:681.142

ACC NR: AP7005662



1—register wheel; 2—ribbon; 3—lever; 4—shaft; 5 and 6—cams;
7 and 8—rollers; 9 and 10—frames; 11 and 12—electromagnets

SUB CODE: 09, 14/ SUBM DATE: 14 May 65

Cord 2/2

TSAPKO, V. G.; PAUSTOVSKAYA, V. V.; KRASNOSHCHIEKOV, N. A. (Kiyev)

Sanitary hygienic characteristics of work conditions in streptomycin production. Gig. truda i prof. zab. no.1:52-53 '62.
(MIRA 15:2)

1. Kiyevskiy meditsinskiy institut.

(INDUSTRIAL HYGIENE) (STREPTOMYCIN—TOXICOLOGY)

TSAPKO, V.G., mladshiy nauchnyy sotrudnik

Safety measures in using chlorophos. Zashch. rast. ot vred. i bol.
8 no.5:35 My '63. (MIRA 16:9)

1. Institut gigiyeny truda i professional'nykh zabolevaniy, Kiyev.
(Chlorophos—Safety measures)

PAUSTOVSKAYA, V.V., kand. med. nauk; TSAPKO, V.G.; KRASNOSHCHIEKOV, N.A.

Effect of streptomycin on the organism. Vrach. delo no.2:
123-127 F'64 (MIRA 17:4)

1. Kafedra gigiyeny truda (zav. - chlen-korrespondent AMN SSSR
prof. G.Kh. Shakhbazyan) Kiyevskogo meditsinskogo instituta.

SHPITS, Zh.D.; SANIN, V.A.; KISH, S.S.; TSAPKO, V.G.

Granulated chlorophos for corn fields. Zashch. rast. ot vred. i
bol. 9 no.9:19 '64. (MIRA 17:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut zashchity rasteniy
i Gosudarstvennyy nauchno-issledovatel'skiy institut Grazhdanskogo
vozdušnogo flota.

L 29011-66 EWT(1) RO

ACC NR: AF6018870

SOURCE CODE: UR/0240/65/000/004/0032/0036

AUTHOR: Tsapko, V. G.

ORG: Kiev Scientific Research Institute of Labor Hygiene and Occupational Diseases
(Kiyovskiy nauchno-issledovatel'skiy institut gigiyeny truda i profzabolevaniy)

TITLE: Materials for determining hygienic standards for chlorophos in the air of working areas

SOURCE: Gigiyena i sanitariya, no. 4, 1965, 32-36

TOPIC TAGS: mouse, rat, rabbit, cat, toxicology, pharmacology

ABSTRACT: Experiments were conducted in which chlorophos (dipterex, Bauer L 13/59, dilox, and trichlorphon are corresponding non-Soviet names) was administered by various routes to white mice and rats, rabbits, and cats. The results indicated that the preparation could enter the organism through the gastrointestinal tract, through the respiratory organs, and through intact skin. LD50 of chlorophos for white mice, rats and cats was 1,015, 945, and 97 mg per kg, respectively. No mortality was observed from administration of the preparation to the skin of the animals. It is concluded that the toxicity of chlorophos is less than that of mercaptophos (Demeton), thiophos (Parathion), methyl mercaptophos, M-81, etc. The clinical aspects of chlorophos poisoning are described. The cumulative

Card 1/2

UDC: 614.72:615.778.3-099/1:613.6

L 29011-66

ACC NR: AP6018870

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properties of chlorophos are less pronounced than those of mercaptophos, thiophos, and other similar preparations. A single exposure of rats to fumes in a concentration of 0.01 mg per l resulted in a 56% reduction of cholinesterase activity; a concentration of 0.002 mg per l resulted in a 20% reduction in some animals, with full recovery after two days. At the present time chlorophos is recommended to replace a number of highly toxic and cumulative preparations, above all DDT. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 23Jan64 / ORIG REF: 003 / OTH REF: 001

Card 2/2 BLS

TSAPKO, V., mladshiy nauchnyy sotrudnik

Be careful in working with chlorophos. Zashch. rast. ot .red.
i bol. 10 no.7:33-34 '65. (MIRA 18:10)

1. Institut gigiyeny truda i professional'nykh zabolevaniy,
Kiyev.

TSAPKO, V. V., CAND MED SCI, "HYGIENIC CHARACTERISTICS
OF ^{water of} THE BUCHAK WATER-BEARING HORIZON WITHIN THE BOUNDARIES
OF THE DNEPR-DONETS DEPRESSION, ITS UTILIZATION AND SANI-
TARY PROTECTION," KIEV, 1960. (KIEV ORDER OF LABOR RED
BANNER MED INST IN ACAD A. A. BOGOMOLETS). (KL, 2-61, 220).

-295-

TSAPKO, V.V. (Kiyev)

In the medical societies. Vrach, delo no. 2:215-216 P '60.
(MIRA 13:6)

(UKRAINE--THERAPEUTIC SOCIETIES)
(UKRAINE--TUBERCULOSIS)
(UKRAINE--PUBLIC HEALTH)
(UKRAINE--MEDICAL SOCIETIES)

TSAPKO, V.V. (Kiyev)

Hygienic rating of the water from the Buchak water-bearing horizon.
Vrach.delo no.12:1323-1325 D '57. (MIRA 11:2)

1. Ukrainskiy institut kommunal'noy gigiyeny
(DNIEPER LOWLAND--WATER, UNDERGROUND)
(DONETS BASIN--WATER, UNDERGROUND)

TSAPKO, V.V., aspirant

Effect of surface soil pollution on the quality of water in artesian
water-horizons, Gig. i san. 23 no.5:66-68 My'58 (MIRA 11:6)

1. Iz Ukrainskogo instituta kommunal'noy gigiyeny.

(WATER POLLUTION

eff. of surface soil pollution on water of artesian
water-bearing horizons (Rus))

(SOIL, microbiol.
same)

TSAPKOV, N.T.

Dressing glauconite ore. Gor. zhur. no.11:62-69 N '64.
(MIR 18:2)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii
i mineral'nogo syr'ya, Tashkent.

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
COMMON ELEMENTS																										COMMON VARIANTS INDEX																									
<p>TSAPKOVA N. A.</p> <p>Processes and Properties Index</p> <p>Tobacco curing. III. The organic acids in the process of cigar-tobacco drying. N. P. Shergin. <i>Vestnik Nauch.-Issledovatel. Inst. Tobach. Makhoroch. Prom.</i> No. 118, <i>Ibid.</i> 53-63 (in English 63) (1935).—Changes in the org. acids of tobacco during the process of curing take place with the change in the method of curing. The amt. of malic acid decreases with the advance of the process of curing. With cigaret tobacco the reverse takes place. At the end of the curing the malic acid increases again. The citric acid increases during the process of curing. The oxalic acid tends to decrease. The volatile acids increase with the curing. Since acetic acid may form in the process of analyses from pectin and formic acid in the process of decompos. of other acids it is difficult to evaluate them quantitatively. IV. Changes in chlorophyll content and yellow pigments. N. A. Tsapkova, <i>Ibid.</i> 65-76 (in English 76).—Chlorophyll completely decomposes, whereas the yellow pigments change but little in the process of curing tobacco. The standard methods, with some modification, in the analytical procedure are described.</p> <p>I. S. Joffe</p>																																																			
<p>ASB-11A METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
<p>FROM SOURCE</p>																																																			

(The following information was obtained from a microfilm copy of a document titled "Moisture-holding capacity of tobacco. N. A. Tsapкова. Vsesoyuz. Nauch.-Issledovatel. Inst. Tabach. Mashinostek. Prom. No. 142, 313-20 (in English, 320-1) (1940).—Using the Ostwald filtration method (C. A. 19, 1673) in detg. stages of fermentation for their moisture-holding capacity. It appears that the phenomenon of the moistening of tobacco at some time during the fermentation is associated with syncretism." J. S. Joffe.)

Tsapkova, N. A.

USSR/Biology - Plant physiology

Card 1/1 Pub. 22 - 43/48

Authors : Mashkovtsev, M. F.; Tsapkova, N. A.; and Moiseeva, M. E.

Title : Destruction of nicotine by the tobacco plant cells during autolysis and hunger metabolism

Periodical : Dok. AN SSSR 98/3, 491-494, Sep 21, 1954

Abstract : The role of nicotine in the life of a tobacco plant, is explained. The destruction of the nicotine by the tobacco plant cells during autolysis and hunger metabolism and its effect on the growth of tobacco leaf, are discussed. Eight references: 7-USSR and 1-German (1926-1949). Tables.

Institution : The A. I. Mikoyan All-Union Scientific Research Tobacco Institute, Krasnodan

Presented by: Academician A. L. Kursanov, June 21, 1954

KOROTUN, M.V.; PAVLINOVA, A.V.; PROTSENKO, A.Ye.; TSAPLENKOVA, P.S.;
BODROVA, N.I.

Photoelectrocolorimetric determination of large amounts of
potassium in solution. Izv.vys.ucheb.zav.; khim.i khim.tekh.
4 no.6:1037-1039 '61. (MIRA 15:3)

1. Chernovitskiy gosudarstvennyy universitet i Kalushskiy kaliynyy
kombinat.

(Potassium--Analysis)

TSAPLEV, N., inzh.

Efficiency in structural designs for 16-story completely
prefabricated buildings. Zhil. stroi. no.1:16-17 '65.
(MIRA 18:3)

KAZAKOV, I., inzh., TSAPLEV, N., inzh.

Panel floors. Zhil. stroi. no.12:20-22 '60.
(Floors, Concrete)

(MIRA 13:11)

MOROZOV, N.V., kand. tekhn. nauk; MKRTUMYAN, A.K., kand. tekhn. nauk; ANTIPOV, T.P., arkh.; KOCHESHKOV, V.G., inzh.; LISAGOR, I.A., inzh.; TSAPLEV, N.N., inzh.; IVASHKOVA, V.K., kand. tekhn. nauk; SHIKUNOV, I.Ya., inzh.; FILIN, Yu.D., inzh.; MOSTAKOV, V.I.; BURLACHENKO, P.Ye., kand. khim. nauk[deceased]; PANKRATOV, V.F., inzh.; RUBANENKO, B.R., glav. red.; ROZANOV, N.P., zam. glav. red.; ONUFRIYEV, I.A., red.; YUDIN, Ye.Ya., red.; NASONOV, V.N., red.; ISIDOROV, V.V., red.; MAKARICHEV, V.V., red.; POLUBNEVA, V.I., red.

[Ways of improving design details for the seams of exterior wall slabs] Puti uluchsheniia konstruktivnykh reshenii stykov panelei naruzhnykh sten. Moskva, TSentr. biuro tekhn. informatsii i nauchno-issl. in-ta organizatsii, mekhanizatsii i tekhn. pomoshchi stroit., 1962. 78 p. (MIRA 16:8)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut industrial'nykh zhilykh i mas-sovykh kul'turno-bytovykh zdaniy (for TSaplev). 2. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR, Perovo (for Mostakov). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR (for Pankratov).

(Talla)

1. LEVIN, D.; TSAPLIN, A.
 2. USSR (600)
 4. Meat Industry--Accounting
 7. Cost calculation of sausage products. Mias. ind. SSSR 23 no.5 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

OVCHINNIKOV, I.K., prof.; KADKIN, V.A., inzh.; TSAPLIN, A.A., inzh
[deceased]

Investigating the wetting by mercury of platinum and its alloys.
Izv.vys.ucheb.zav.; gor.zhur. no.1:144-148 '60.
(MIRA 13:6)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva.
Rekomendovana kafedroy fiziki.
(Platinum) (Surface chemistry)

AUTHOR: Tsaplin, D. (Lyubertsy, Moskva Oblast.) SOV-107-58-9-25/38
TITLE: Preparing a Frameless Coil (Izgotovleniye bezkarkasnoy ramki)
PERIODICAL: Radio, 1958, Nr 9, p 39 (USSR)
ABSTRACT: The author describes a method of winding a coil for a permanent-magnet moving-coil instrument. A block of wood with cross-section shaped to the size of the desired coil is fixed to a drill by a sawn-off nail driven into one end. The block is rotated to wind on the wire, one layer at a time, with a coating of glue inbetween layers. When dry the completed coil can be slipped off and is then ready for use. There is 1 diagram.

1. Armature coils--Construction

Card 1/1

6 (5)

SOV/107-59-3-49/52

AUTHOR: Tsaplin, L.

TITLE: A Friction Clutch for a Three-Motor Tape Winding Mechanism (Friksionnoye stsepleniye v trekhmotornyykh lentoprotiyazhnykh mekhanizmach)

PERIODICAL: Radio, 1959, Nr 3, p 33 (USSR)

ABSTRACT: Figure 1 shows a drawing of a friction clutch the purpose of which is to prevent the tearing or stretching of the tape when switching on the tape recorder. The clutch is installed on the shaft of the right tape recorder motor and the degree of friction is adjustable by a small screw. There is 1 drawing.

Card 1/1

RABINOVICH, R.I. Prinimali uchastiye: ALEGLAN, L.K., kand. sel'khoz. nauk;
BARABANOVA, N.N.; BOSENKO, K.S.; VINNIK, V.V.; GRIGORCHUK, Ye.V.;
GUMEROV, A.Kh.; DOBROCHASOV, D.F.; ZAMURAYEV, I.V.; ZAYTSEVA, A.G.,
kand. sel'khoz. nauk; KOL'TSOV, N.A.; LEVITIN, Kh.Z., kand. biol.
nauk; LISITSKIY, B.Ya.; MATYASH, G.P.; MENTOV, A.V.; RABINOVICH, R.I.;
SAL'NIKOV, V.V.; SVECHNIKOV, I.V.; SIMONOV, P.K.; SMIRNOV, V.V.;
SMIRNOV, L.P.; SMIRNOVA, V.I.; STEPANOVA, V.I.; TARASOV, A.A.; FILA-
TOVICH, V.V., kand. sel'khoz. nauk; FEDOROV, N.G., kand. tekhn. nauk;
TSAPLIN, M.F.; KHROMOV, L.V.; DAVYDOVA, I., red.; PAL'MINA, N., tekhn.
red.

[Sverdlovsk in Agricultural Exhibition of 1959] Sverdlovskaya sel'-
khoziaistvennaya vystavka. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo,
1960. 131 p. (MIRA 14:10)

1. Sverdlovsk. Sverdlovskaya oblastnaya sel'skokhozyaystvennaya
vystavka, 1959.

(Sverdlovsk—Agricultural exhibitions)

TSAPLIN, M.I., kand.tekhn.nauk

Converter of a continuous intermittent rotating motion. Vest.
mashinostr. 42 no.8:22-24 Ag '62. (MIRA 15:8)
(Converters)

TSAPLIN, M.I. (Moskva)

Concerning I.T. Shvets, and E.P. Dyban's article "Development
and study of air cooling systems of gas turbine units." Izv.
AN SSSR. Energ. i transp. no.2:147-148 Mr-Apr '65.

(MIRA 18:6)

Author: Isaev, A. A. (Candidate of Technical Sciences)

TITLE: Heat transfer through a fastener

SOURCE: Teploenergetika, no. 2, 1965, 40-44

TOPIC TAGS: heat transfer, gas turbine, boundary value problem, water cooling

ABSTRACT: An analytical method is presented for obtaining the temperature distribution in the head of a fastener in the cooling air of a gas turbine. The problem is solved for a fastener of arbitrary shape. The temperature distribution in the head of the fastener is determined by the method of separation of variables. The temperature distribution in the body of the fastener is determined by the method of integral transforms. The temperature distribution in the body of the fastener is determined by the method of integral transforms. The temperature distribution in the body of the fastener is determined by the method of integral transforms.

conductivity of the bolt, and

$$\theta_z = t_z - t_{cp}, \quad \theta_s = t_s - t_{cp}, \quad \Delta\theta = \theta_z - \theta_s.$$

Card 1/4

L 27096-05

ACCESSION NR: AP5004059

The solutions for ϑ_B and ϑ_Z are:

$$\vartheta_B = \frac{p^2 - k_1^2}{p^2(k_1 - 1)} C_1 e^{p^2 x} + \frac{p^2 - k_1^2}{p^2(k_1 - 1)} C_2 e^{p^2 x} + \frac{p^2 - k_2^2}{p^2(k_2 - 1)} C_3 e^{p^2 x} + \frac{p^2 - k_2^2}{p^2(k_2 - 1)} C_4 e^{p^2 x} + C_5 x^2 + C_6$$

$$\vartheta_Z = \frac{p^2 - k_1^2}{p^2(k_1 - 1)} C_1 e^{p^2 x} + \frac{p^2 - k_1^2}{p^2(k_1 - 1)} C_2 e^{p^2 x} + \frac{p^2 - k_2^2}{p^2(k_2 - 1)} C_3 e^{p^2 x} + \frac{p^2 - k_2^2}{p^2(k_2 - 1)} C_4 e^{p^2 x}$$

$$\vartheta_B = \frac{p^2 - k_1^2}{p^2(k_1 - 1)} C_1 e^{p^2 x} + \frac{p^2 - k_1^2}{p^2(k_1 - 1)} C_2 e^{p^2 x} + \frac{p^2 - k_2^2}{p^2(k_2 - 1)} C_3 e^{p^2 x} + \frac{p^2 - k_2^2}{p^2(k_2 - 1)} C_4 e^{p^2 x}$$

"APPROVED FOR RELEASE: 03/14/2001

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ACCESSION NR: AP5004059

ENCLOSURE: 01

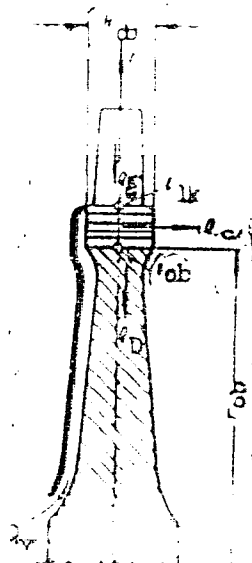
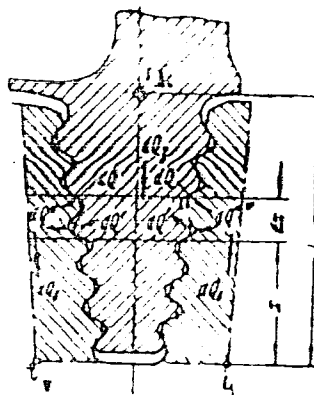


Fig. 1. Water part for which the calculation was made

Card 4/4



with blowing air from the nozzle

TSAPLIN, M.I. (Moskva)

Converters of a steady rotating motion into an intermittent
one. Mashinovedenie no.6:35-41 '65.

(MIRA 18:11)

TSAPLIN, Nikolay Dmitriyevich, starshiy inzh.

Mechanical causes of switching faults; grinding of the collectors
of electrical machines with abrasive bars. Izv. vys. ucheb. zav.;
elektromekh. 5 no.6:705-707 '62. (MIRA 15:10)

1. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'-
skogo instituta elektromekhaniki.

(Electric machinery)
(Commutation(Electricity))

TSAPLIN, Sergei Afanas'evich.

mitei. Theory of computing elastic cables. Moscow. Mosollpoligraf. 1957.
65 p.

MIU

1. Cables. 2. Elasticity.

1951, 1952, 1953

Novyi metod reshenia zadach mekhaniki. (New method of solving problems of mechanics.)

New method of solving problems of mechanics.

1951, 1952, 1953

10: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

TSAPIIN, SERGEY AFANAS'YEVICH

Technology

Suspension bridges, Moskva, Dorizdat, 1949.

Monthly List of Russian Accessions, Library of Congress, March 1952, UNCLASSIFIED.

TSAPLIN, S.A.; PETRUN'EIN, L.P., redaktor; KOVALIKHINA, N.F.; tekhnicheskii redaktor

[Vibrator impact mechanisms for the construction of roads and bridges] Vibroudarnye mekhanizmy dlia dorozhno-mostovogo stroitel'stva. Moskva, Avtotransizdat, 1953. 149 p. (MLRA 7:8)
(Road machinery)

TSAPLIN, S.A., kandidat tekhnicheskikh nauk.

Vibration impact method of sinking pipes, piles and sheet piling.
Stroi. i dor.mashinoatr. 1 no.2:22-25 F '56. (MIRA 10:1)
(Piling (Civil engineering))

BARKAN, D.D.; TIKUNOV, P.R.; SHEKHTER, O.Ya.; PREOBRAZHenskAYA, N.A.;
SAVINOV, O.A.; LUSKIN, A.Ya.; GREBENNIIK, A.A.; MERZLYAK, TS.N.;
ALEKSANDROV, M.A.; TSAPLEN, S.A.; PAVLOVA, A.B.; DITRIKH, Yu.V.;
KHAVIN, B.N., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Instructions for driving and extracting steel pile planks using
SN 59-59 vibrators] Instruktsiia po pogrusheniiu i izvlecheniiu
stal'nogo shpunta vibropogruzhateliami SN 59-59. Moskva, Gos.
izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1959.
(MIRA 13:3)
46 p.

1. Russia (1923- U.S.S.R.) Gosudarstvennyi komitet po delam
stroitel'stva. 2. Nauchno-issledovatel'skiy institut osnovaniy
i podzemnykh sooruzheniy Akademii stroitel'stva i arkhitektury
SSSR (for Barkan, Tikunov, Shekhter, Preobrazhenskaya). 3. Vse-
soyuznyi nauchno-issledovatel'skiy institut gidrotekhnicheskikh i
sanitarno-tekhnicheskikh rabot (VNIIGS) (for Savinov, Luskini).
4. Fundamentproyekt (for Grebennii, Merzlyak). 5. Vsesoyuzhnyi
nauchno-issledovatel'skiy institut stroitel'nogo i dorozhnogo
mashinostroyeniya (VNIIShtroydormash) (for TSaplin). 6. Gidroprom-
yekt (for Pavlova). 7. Gidropetsfundamentstroy (for Ditrkh).
(Vibrators) (Piling (Civil engineering))

VYSHKIND, F., arkhitektor; TSAPLIN, V., inzh.

Landscaping state farm settlements on the Golodnaya Steppe.

Zhil.stroi. no.3:28-30 '62.

(MIRA 15:9)

(Golodnaya Steppe—State farms)

(Golodnaya Steppe—Landscape architecture)

PODDUBNYY, I.; YANIKOV, I.; FABRIKOV, G., zhivotnovod; TARASYUK, A.;
TSAPLIN, V.; BAKLITSEKAYA, Ye., zvon'yevaya; GRIDINA, A., doyararka;
KRAVTSOVA, Z., telyatnitsa; KOMYAGILIA, R., svinarka; SAVEL'YEV, I.,
chaban; SLADKOVEDOVA, N., ptichnitsa; RUD, M., mekhanizator;
GOGIN, S., mekhanizator.

Our collective farm in seven years. Nauka i pered.op.v sel'khoz.
9 no.1:5-9 Ja '59. (MIRA 13:3)

1. Kolkhoz "Ukraina," Kirovskogo rayona Krymskoy oblasti.
 2. Predsedatel' kolkhoza "Ukraina" Kirovskogo rayona Krymskoy oblasti (for Poddubnyy).
 3. Glavnyy agronom kolkhoza "Ukraina" Kirovskogo rayona Krymskoy oblasti (for Yanikov).
 4. Glavnyy mekhanik kolkhoza "Ukraina" Kirovskogo rayona Krymskoy oblasti (for Tarasyuk).
 5. Sekretar' partorganizatsii kolkhoza "Ukraina" Kirovskogo rayona Krymskoy oblasti (for TSaplin).
- (Kirovskoye District--Agriculture)

TSAPLIN, V.A.

New devices for determining the hardness of metals. Priborostroenie
no.8:25-27 Ag '62. (MIRA 15:9)
(Hardness--Testing)

TSAPLIN, V.A.; BATSIYEVSKIY, A.F.; TEPILOV, V.S., inzh., retsenzent;
STROGANOV, L.P., inzh., red.

[Equipment for the measurement of metal hardness] Pribory
dlia izmereniia tverdosti metallov. Moskva, Izd-vo "Ma-
shinostroenie," 1964. 90 p. (MIRA 17:6)

TSAPLIN, V.A.

Improving the process of pepper stuffing. Kons. i ov. prom.
16 no.6:15-16 Je '61. (MIRA 14:8)

1. Odesskiy konservnyy kombinat.
(Odessa--Canning industry)
(Pepper--Preservation)

TSAPLIN, V.A.; ANOSOV, S.A.

Testing the possible use of dairy plate heat exchange systems
on grape juice production lines. Trudy MNIIPP 5:54-65 '64.
(MIRA 19:1)

BRCDSKIY, A.Ya., kand. tekhn. nauk; YEVOEN'YEV, I.Ye., kand. tekhn. nauk;
FRIDMAN, A.M., inzh.; TSAFLIN, V.P., inzh.

Device for controlling strength of joints in welded reinforcements.
Nov. tekhn. i pered. op. v stroi. 20 no.4:11-12 Ap '58. (MIRA 11:3)
(Reinforced concrete)

TSAPLIN, V.P.

Mechanization of fryers. Kons. 1 ov. prom. 14 no.11:14-16
N '59. (MIRA 13:2)

1.Odesskiy konservnyy kombinat.
(Canning and preserving--Equipment and supplies)

YEVREINOVA, T.N.; TSAPLINA, I.A.; AGRE, N.S.; DAVYDOVA, I.M.

Effect of temperature on nucleic acids of the thermophilic
and mesophilic variants of *Micromonospora vulgaris*.

Mikrobiologiya 34 no.3:411-417 My-Je '65.

(MIRA 18:11)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo
universiteta imeni M.V.Lomonosova.

Investigations in the field of synthetic, highly polymerized substances. 1. Investigation of the process of solution and the properties of solutions of polyvinyl chloride. Z. A. Kugovin and L. Tsaplina. *Kolloid J.* (U.S.S.R.) 7, 171-184 (1941); *Chem. Zentr.* 1941, II, 3480-1. A study was made of the process of soln. of polyvinyl chloride of varying degrees of polymerization in various org. solvents. The low-mol. products or alc. polymers are prep'd. in the presence of alc. while the polymerization of the high-mol. products or emulsion polymers takes place in aq. medium. Viscosity measurements showed both these groups of polymers to be highly polydispersed. This could be demonstrated by fractional soln. in acetone at room temp. and at 40-5°. The viscosity of the soln (0.5%) depends in large measure on the solvent. E.g., with an emulsion polymer $\eta_{sp} = 0.52$ in dichloroethane, pyridine and nitrobenzene, 0.31 in chlorobenzene and 0.30 in furfural. With the higher-mol. products structural viscosity was observable even in 1% soln. Soln. tests were made in 40 different liquids in concns. of 0.5-6.0%, with soln. being carried out at room temp. The results revealed a series of regularities. Of the Cl-contg. solvents, dichloroethane showed the greatest solvent power; 3% solns. could be prep'd. which set to a firm mass upon cooling. The solvent power of aromatic compds. was greater than that of the Cl-contg. compds. Groups introduced into the benzene nucleus showed a marked influence on the solvent power. Thus, the solvent power increased when a H was replaced by Cl, Br, NH, or NO₂ in that order. Thus, a 4% soln. could be prep'd. in PhNH₂ and a 12% soln. in o-nitrophenol. H₂ is likewise a good solvent, giving a 6% soln. Numerous heterocyclic compds. showed relatively great solvent power (6-7% solns.). The introduction of NO₂ groups and of N into aliphatic compds. produced no increase in solvent power. Cl-contg. 8 compds., however, were good solvents. As was to be expected, tests made on low-mol. polymers with the same solvents showed a sharp increase in soly. Thus, instead of the 3% soln. of the emulsion polymers obtained in dichloroethane, a 5% soln. of the alc. polymers could be obtained. The corresponding values for chlorobenzene were 3% instead of 1%; for nitrobenzene they were 7% instead of 4%. Attempts to prep. solns. of higher concn. by the use of a mixt. of 2 solvents were not very successful. It should be noted, however, that acetone, which when used alone did not dissolve the higher-mol. polymers, gave 6% solns. when used in a mixt. with 20% pyridine. All soln. which had been prep'd. at elevated temps. proved to be unstable at room temp. This was true for both those prep'd. of the higher-mol. products and those prep'd. of the lower-mol. products. This instability was demonstrated by successive detns. of viscosity (for 150 hrs.). The more soln. aged, more rapidly. Soln. stable at room temp. did sol. prep'd. only by carrying out the process of soln. at room temp. The soly. of polyvinyl chlorides was thus shown to depend to a greater extent on the degree of polymerization and the temp. than does that of natural products. For tech. purposes it is thus necessary to introduce additional active groups into the polyvinyl chloride mol. to increase its soly.

M. G. Moore

Effect of the viscosity of the medium on the polymerization of vinyl compounds. Z. A. Rogovin and L. A. Tsaplina (Moscow Textile Inst.). *J. Applied Chem. (U.S.S.R.)* 20, 875-82(1947) (in Russian).—Bulk polymerization of $\text{CH}_2=\text{CM}(\text{CO}_2\text{Me})$ (I) is accelerated considerably if its viscosity is raised by advance addn. of the polymer; e.g., with 33% polymer (of sp. viscosity 0.8 in

25% Me_2CO soln.) added, at 100° , in the presence of a const. amt. of air, the yields of polymer after 0.5, 1, and 2 hrs. were 53.0, 80.2, and 97.2%, as against 1.3, 7.7, and 36.6% without addn.; the acceleration is thus particularly marked in the initial stages; it is observed both with reprecip. and nonreprecip. polymer. That the effect is due solely to increased viscosity of the medium was demonstrated in runs with equal amts. of polymers of different mol. wts., resulting in media of different η ; e.g. with 15% of polymers of sp. η 0.66 and 0.16 (in 25% Me_2CO soln.), after 0.5, 1, 2 hrs., η = 65.0, 90.3, 99.1% and 6.0, 9.9, 16.8%, resp., as against 10.6% after 2 hrs. without addn. of polymer. The nonspecificity of the effect is further demonstrated by the fact that addn. of numerous extraneous polymers (other than the polymer of I) had an equally strong accelerating effect; e.g., with 20% polystyrene, polyisobutylene, nitrocellulose, η (after 3 hrs.) = 97.3, 95.0, 98.0%, as against 16-20% without addn. The accelerating effect is more marked at lower temps. On the other hand, inert polymers which are neither dissolved nor swell in I, not only do not accelerate the polymerization but

have an inhibiting effect; thus, with 33% acetylkellulose and sulfite cellulose, η after 3 hrs. reached only 6.2 and 1.0%, resp. Such inhibition by inert polymers was also observed in the polymerization of $\text{CH}_2=\text{CHOAc}$ (II) and of $\text{PhCH}=\text{CH}_2$ (III); the former is suppressed altogether by 30% sulfite cellulose, the latter, at 100° , attains, in 10 hrs., η = 4% as against 15.1% without addn. The inhibiting effect is obviously due to increased probability of rupture of chains. The polymer of I, obtained in accelerated polymerization in a medium of higher η , has a higher degree of polymerization; thus, with 0, 5, 10, and 20% polymer added in advance, in 1.5 hrs., η = 15.0, 45.2, 85.1, and 92.9%, and the specific η (in 25% soln. in Me_2CO) of the polymer produced = 1.20, 1.45, 1.35, and 1.40, resp. Consequently, in the case of I, acceleration of polymerization entails no lowering of the degree of polymerization. Higher η of the medium results also in a significant shortening of the induction period; while, in pure I, the induction period (by the constancy of the η) at 80° lasted 2 hrs. in the presence of 10 and 20% ethylcellulose, increase of a set in within 20 min. Possibly, the well-known autocatalysis of the polymerization of I is simply the result of the increasing η . In contrast to I, the rate of polymerization of II is slowed down in a medium of higher η ; thus, without addn. and with 20% nitrocellulose, ethylcellulose, polyvinyl acetate, and acetylkellulose, η = 52.9, 7.9, 13.3, 30.9, and 11.7%. Evidently, the factors detg. the rupture

8

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Investigation of the above in the presence of nitro-
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(Chemistry, Analytical)

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"Krupnyy rogatyy skot" na Vystavke dostizheniy narodnogo khozyaystva
SSSR (for Drosvyannikova). 3. Pavil'on "Mekhanizatsiya i elektrifi-
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PART I BOOK EMIGRATION

001/5742

Akademiya nauk SSSR. Nauchnoissledovatel'skiy komitet po provedeniyu Nauchnoissledovatel'skogo geofizicheskogo goda. VIII razdel programy ISS: Shiroty i dolyoty.

Predvaritel'nyye rezultaty issledovaniy kolebaniy shirot i dvizheniya polynov zemli; sbornik statey (Preliminary Data of Latitude Variations and Migrations of the Earth's Poles; Collected Articles. No. 1) Moscow, Izd-vo AN SSSR, 1960. 97 p. Errata slip inserted. 1,000 copies printed.

FORNERS: This collection of articles is intended for astronomers, geophysicists, and other scientists concerned with the problem of latitude variations and the migration of the Earth's poles.

COVERAGE: Part I of the collection contains preliminary results of latitude observations from 1957.5 through 1959.0 made at IGY stations in the USSR network, including new stations in Siberia. Part II consists of articles describing new instruments, observational programs and methods, and procedures of processing the latitude observational data. With the larger number of stations and the use of new instruments it is anticipated that the final results will provide a more comprehensive study of anomalies and instrumental

Card 1/5

Monthly Data of Latitude Variations (Cont.)

10/2/82

all in latitude observations that have been possible previously. No particular conditions are mentioned. English abstracts and references follow each article.

LIST OF CONTENTS:

Profess

5

LIST OF

Profess, S. V., L. D. Kostina, and M. N. Andreyenko. Latitude
Observations at the Main Astronomical Observatory of the Academy
of Sciences USSR (Fraunhofer-Kondratyev Zenith-Telescope)

7

Kostina, Ye. N., Y. P. Kondratyev, and G. V. Chapman. A.
Observations of Talcott Stars at the Pulkovo Geometrical
Observatory of the Ukrainian Academy of Sciences (Zeiss
Zenith-Telescope)

9

Kostov, N. A. Observations of Bright Zenith Stars at the Pulkovo
Geometrical Observatory of the Ukrainian Academy of Sciences
(Zeiss Zenith-Telescope)

13

Card 2/5

Primary Data of Latitude Variations (Cont.)

007/5742

Yakovlev, M. I., Ye. P. Pilyorov, and A. P. Vasyun. Observations of the Sun at the Poltava State Observatory of the Ukrainian Academy of Sciences (Bachberg Zenith-Telescope)	17
Yakovlev, Ye. I. Observations of Bright Zenith Stars at the Poltava State Astronomical Observatory of the Ukrainian Academy of Sciences (Bachberg Zenith-Telescope)	20
Yakovlev, V. P., P. M. Rabinovskiy, and N. A. Chudovitchova. Latitude Observations at the Astronomical Observatory imeni Bagel'gardt (ZTL-180 Zenith-Telescope)	25
Kharin, D. I. Latitude Observations at the Kitab International Latitude Station imeni Ulug-bek (Bachberg Zenith-Telescope)	28
Khramova, K. S. Latitude Observations at the Irkutsk State University Astronomical Observatory imeni A. A. Zhukovskiy (ZTL-180 Zenith-Telescope)	31

Cont 3/5

TSAPOVA, A.P.

RUSSIAN ASTRONOMICAL CONFERENCE

501/5721

Vsesoyuznaya astronomicheskaya konferentsiya.

Trudy 14-y Astronomicheskoy Konferentsii USSR, Kiyev, 27-30 maya 1953 g.
(Transactions of the 14th Astronomical Conference of the USSR, held in Kiyev
27-30 May 1953) Moscow, Izdatvo AN SSSR, 1953. 480 p. Errata slip inserted.
1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnaya astronomicheskaya observatoriya
(Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of
Publishing House: N. K. Zaychik; Tech. Ed.: R. A. Zakharevna.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly
those interested in astronomical research.

COVERAGE: This publication presents the Transactions of the 14th Astronomical
Conference of the USSR, held in Kiyev 27-30 May 1953. It includes 27 reports
and 55 scientific papers presented at the plenary meeting of the Conference

Card 1/16

Transactions of the 14th Astronomical (Cont.)

SOV/5/21

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astronomical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: J. M. Vasil'yev, I. G. Kol'chinskii, A. B. Oe-gina, and Kh. I. Potter.

TABLE OF CONTENTS:

Foreword

Address by A. A. Mikhaylov, Chairman of the Astronomical Council of the Academy of Sciences USSR

REPORTS OF THE ASTRONOMICAL COMMITTEE AND SUBCOMMITTEES
INFORMATION ON ASTRONOMICAL WORK PRESENTED BY VARIOUS INSTITUTIONS

Car- 2/16

Transactions of the 14th Astrometrical (Cont.)	SOV/5721
Vlasov, B. I. On Fluctuations in the Direction to a Luminary Resulting From Atmospheric Nonstability	197
Fedorov, Ye. P. Some Considerations on the Reorganization of Works Associated With the Study of the Movement of the Pole	203
Fedorov, Ye. P., and A. P. Tsapova. Reduction of the Results of the International Latitude Service to a Uniform System	210
Rubashevskiy, A. A. The Labrouste Method and the Comparison of the Selectivity of A. Ya. Orlov's and P. Melchior's Combinations	220
Sakharov, V. I. The Oscillations of the Earth's Axis of Inertia	227
Panchenko, N. I. On the Damping of the Earth's Free Nutation	232
Obrezkova, Ye. I. On Changes of the Mean Latitudes of Three Inter- national Stations [English Summary Only]	244

Card 10/16

TSAPP, R. L.

22510

Tsapp, R. L. Vliyaniye Polimolekulyarnosti Na Deformatsiyu
Butilkauchuka. (Sokr. Per Stat'; R. L. Lapp A F. P. Baldwin
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